

### **AMENDMENTS TO THE CLAIMS:**

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

### **LISTING OF CLAIMS:**

Claims 1 to 8. (Canceled).

9. (Original) A method for transmitting digitized, broadband data, which are suppliable by various sources for retransmission and which are selectable by a user via a reverse channel, comprising:

performing signal analysis on source signals, and, if necessary, converting a data format of the source signals;

centrally comparing the source signals to a quality measure before performing the signal analysis and before the retransmission, wherein the quality measure is demanded by a selecting user; and

performing a signal improvement on inferior quality signals with respect to the data format and errors of the source signals, wherein the signal improvement includes at least one of a standard conversion through an up-conversion and a special signal improvement.

10. (Currently Amended) The method of claim 9, further comprising:

demultiplexing multiplexed data streams to demultiplexed signals, if necessary, before performing the signal analysis;

subsequently analyzing signals to be processed with respect to their data formats and errors; and

performing a format conversion if an input signal format and an output signal format differs;

performing additional special signal improvements to signals ~~whose quality is,~~  
such signals having an improvable quality; and

multiplexing the demultiplexed signals.

11. (Original) The method of claim 9, wherein the method is used to process at least one of video signals, digital signals, measurement signals, and sound signals, in a same manner as source signals.

12. (Original) The method of claim 9, wherein the signal analysis is switchable by a subscriber via the reverse channel.

13. (Original) The method of claim 9, wherein decisions on the signal analysis are from a table.

14. (Original) The method of claim 9, further comprising:  
converting the signal format for a return path for a bidirectional signal transmission.
15. (Original) A system for transmitting digitized, broadband data, which are suppliable by various sources for retransmission and which are selectable by a user via a reverse channel, comprising:  
a central communications network station;  
a demultiplexer arrangement;  
a signal-analysis arrangement following the demultiplexer arrangement;  
at least one signal processing arrangement, following the signal-analysis arrangement, to improve source signals prior to a subsequent multiplexing;  
wherein the system is operable to:  
perform signal analysis on the source signals, and, if necessary, convert a data format of the source signals;  
centrally compare the source signals to a quality measure before performing the signal analysis and before the retransmission, wherein the quality measure is demanded by a selecting user; and  
perform a signal improvement on inferior quality signals with respect to the data format and errors of the source signals, wherein the signal improvement includes at least one of a standard conversion through an up-conversion and a special signal improvement.
16. (Original) The device of claim 15, further comprising a control device coupled to the demultiplexer arrangement.